ORIGINAL (Red)

R-585-11-4-22

A FIELD TRIP REPORT FOR POCA STRIP MINE AREA PREPARED UNDER

TDD NO. F3-8407-43
EPA NO.
CONTRACT NO. 68-01-6699

FOR THE

HAZARDOUS SITE CONTROL DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

FEBRUARY 13, 1985

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY	REVIEWED BY	APPROVED BY
BRUCE PLUTA	WILLIAM WENTWORTH	GARTH GLENN
BIOLOGIST/PUBLIC HEALTH SPECIALIST	ASST. MANAGER, REPORTS	MANAGER, FIT III

AR100337

Site Name: Poca Strip Mine Area
TDD No.: F3-8407-43

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SECTION I

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1.0 INTRODUCTION

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1.1 Authorization

NUS Corporation performed this work under Environmental Protection Agency Contract No. 68-01-6699. This specific report was prepared in accordance with Technical Directive Document No. F3-8407-43 for the Poca Strip Mine Area site located in Putnam County, West Virginia.

1.2 Scope Of Work

NUS FIT III was tasked to conduct a dioxin screening at the Poca Strip Mine Area as part of the EPA Region III, Tier II, Dioxin Studies.

1.3 Summary

The Poca Strip Mine Area site is located several miles southeast of Poca in Putnam County, West Virginia. The site had been identified by Monsanto Company of Nitro, West Virginia, as being used by Monsanto as a disposal site during the time that 2,4,5-T was manufactured. The site was reportedly used from 1959 to 1960. The site is owned by Garnet Smith who inherited the property from his father. The site is a "stripped-out hollow" that Mr. Smith's father leased to the city of Nitro; the city reportedly used the property as an open dump. For a short time, chemicals were allegedly disposed of in a pit at the dump. Concurrently, trash was burned at the site and then pushed into these pits, allegedly resulting in the incineration of the chemicals. The current owner also reported that the dumpers did not always put the chemical waste into the pit but disposed of the material in the open dump area. According to the West Virginia Department of Natural Resources (WV DNR), the Technical Assistance Team (TAT) conducted a sampling at the site; however, the results of that sampling have not been made available.

It should be noted that this is not the site identified as the Poca Drum Dump. The Poca Drum Dump is located on Manila Creek Road, just north of the Manila Creek site. It is currently owned by the Diamond Shamrock Corporation, the parent company of Amherst Coal Company, which is the operating company of the Poca Drum Dump.

This report for the Poca Strip Mine Area presents a summary of on-site work, site observations, a sample log, site sketches, and photographic documentation of the sampling effort.

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SECTION 2

ORIGINAL

2.0 FIELD TRIP REPORT

2.1 Summary

On September 12, 1984, NUS FIT III personnel conducted a dioxin screening at the Poca Strip Mine Area site. FIT personnel at the site included Bruce Pluta, Michael Nalipinski, Jeffrey Case, Mark Volatile, Marcia Irwin, Richard Callahan, and Charles Meyer. The weather at the time of the inspection was overcast, hazy, and humid with a temperature of approximately 70°F.

Sample locations were selected the day of the screening; the locations were selected with consideration given to current site conditions and lab space restraints. A total of 9 field samples and 5 quality assurance samples was taken. All samples were collected and processed in accordance with the established FIT III dioxin protocol and the FIT III Generic Work Plan for site inspections.

2.2 Persons Contacted

2.2.1 Prior to Field Trip

Charles T. Jones
President
Amherst Industries
Port Amherst
Charleston, WV 25306
(304) 925-1171

Richard Clonch
Attorney
Putman Minerals Company, Inc.
1200 First Security Plaza
Lexington, KY 40507
(606) 231-5368

Pamela Hayes
WV DNR
1201 Greenbriar Street
Charleston, WV 25306
(304) 348-5935

Garnet Smith
Site owner
Poca, West Virginia
(304) 776-6494

2.2.2 At the Site

Jerry Smith
Site owner's son
Poca, West Virginia
(304) 776-6494

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2.3 Summary of On-site Work

8:00 AM	FIT III met with Jerry Smith, owner's representative, who provided access to the site.
8:20-8:55 AM	FIT III arrived at the site and established a command post.
8:57-9:18 AM	Pluta and Case scanned the site level B in preparation for full reconnaissance.
9:30-10:10 AM	Pluta, Case, and Nalipinski proceeded downrange to conduct a site reconnaissance and the selection and staking of sampling locations. All fixed reference points are identified in NUS Corporation field logbook 909.
10:30-11:02 AM	Nalipinski, Volatile, and Callahan conducted on-site sampling.
11:05-12:15 PM	Irwin and Meyer blended all samples.
11:15-11:30 AM	Case and Nalipinski took background/blank samples by the main road.
12:10-12:55 PM	FIT broke down command post.
1:00 PM	FIT III left site.

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2.4 Site Observations

- HNU readings above the 1 ppm background were not observed at the site.
- The site, which is comprised of approximately 2 acres, was located in a strip cut situated at the intersection of 2 ridges. The site was "horseshoe-like" in shape, with a steeply sloping (75 to 90 percent) ravine located between the east and west sides of the site. These sides, along with the north side of the site, were nearly level (5 to 10 percent slope) and at one time accommodated an access road which led further back into the hills.
- Approximately 25 percent of the site located adjacent to the access road was covered with what appeared to be the residue of incineration. Much of the material was black and tar-like in appearance.
- Observations noted at specific sample locations are included in the sample log (section 2.5).
- Numerous rusted drums were observed to have been dumped down the side of the ravine. Many of the drums appeared to have been fire scarred. Due to the location of the drums, FIT III was unable to determine if the drums were filled.
- Much of the perimeter of the site was vegetated with scrub and young pine trees. The surface of the site was sparsely vegetated with grass.
- The eastern side of the site was cluttered with abandoned autos and other large pieces of debris.
- A small pond was located at the southern portion of the western side of the site. This pond measured approximately 10 feet by 3 feet and was located at the base of a rock ledge.
- Numerous small drainage channels were observed along the western side of the site flowing towards the ravine.
- Observations noted at specific sample locations are included in the sample log (section 2.5).

Poca Area Strip Mine 8407-43

SAMPLE DESIGNATION	SAMPLE LOCATION	DATE	TIME	SAMPLER	TAG #	COMMENTS
KC008512	P-1	9/12/84	1032	MN	3-33781	Surface sample taken near a small pond. [illegible]. Top 6" was sampled.
13	P-2		1038	MN	3-33782	Surface sample from a small drainage channel. Top 6" of soil was sampled. Brown/black granular [illegible]
14	P-3		1040	MN	3-33783	Surface sample, total depth of 6". Black granular material at surface, [illegible] tan at 4"
15	P-4		1043	MN	3-33784	Surface sample to 6" [illegible] at 4". In drainage channel.
16	P-5		1048	MN	3-33785	Surface sample. Black-soft powdery material. [illegible]
17	P-6		1045	MN	3-33786	Surface sample [illegible]. In drainage area. Black granular material with [illegible] at 5".
18	P-7		1050	MN	3-33787	Surface sample. [illegible]
19	P-8		1055	MN	3-33788	Surface sample. Tan to brown [illegible] material.
20	P-9		1100	MN	3-33789	Surface sample to 3". [illegible] material to 2". [illegible] material at 2", [illegible] material to 3".
21	RINSATE 2	↓	1130	CA ~~MN~~	3-33790	ORIGINAL (Red)

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[illegible] 4/12/84

SAMPLE DESIGNATION	SAMPLE LOCATION	DATE	TIME	SAMPLER	TAG #	COMMENTS
DC008522	P-10 Background-Blank	9/12/84	20	MN	3-33793	Background sample taken from [illegible] by the [illegible]
DC008523	P-10 Background/Blank to be spiked	9/12/84	1120	MN	3-33791	
DC008524	P-11	9/13/84	0853	Released by MN sampled by JC	3-33792	From Both #3 Duplicate of DC008701

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APPENDIX A

ORIGINAL (Red)

1. COST CENTER: / ACCOUNT NO.:	REM/FIT ZONE CONTRACT TECHNICAL DIRECTIVE DOCUMENT (TDD)			2. NO.: F3-8407-43
3. PRIORITY: ☒ HIGH ☐ MEDIUM ☐ LOW	4. ESTIMATE OF TECHNICAL HOURS: 200 *	5. EPA SITE ID:	6. COMPLETION DATE:	7. REFERENCE INFO.: ☒ YES ☐ NO ☐ ATTACHED ☐ PICK UP Contact Walter Lee
	4A. ESTIMATE OF SUBCONTRACT COST:	5A. EPA SITE NAME: Poca Strip Mine Area WVA	4 wks after field work	

8. GENERAL TASK DESCRIPTION: Perform dioxin sampling at subject site (Enforcement Support)

9. SPECIFIC ELEMENTS:

1.) Obtain all available background information from Monsanto.
2.) Prepare sampling plan and submit to EPA for approval.
3.) All sampling to be performed according to the most recent dioxin protocol as written by EPA Region VII.
4.) EPA (Walter Lee) will coordinate lab analysis.
5.) Maintain chain of custody for all samples.
6.) Document all sampling and related activities.
7.) Drum for proper disposal all contaminated clothing and materials, EPA will handle disposal and labeling requirements.
8.) EPA (Walter Lee) will arrange for spiked samples.
9.) Submit field trip report and photo documentation.

10. INTERIM DEADLINES:

11. DESIRED REPORT FORM: FORMAL REPORT ☒ LETTER REPORT ☐ FORMAL BRIEFING ☐

OTHER (SPECIFY): Coordinate activities with Walter Lee.

12. COMMENTS: *Authorized overTime For Field activities. MEK

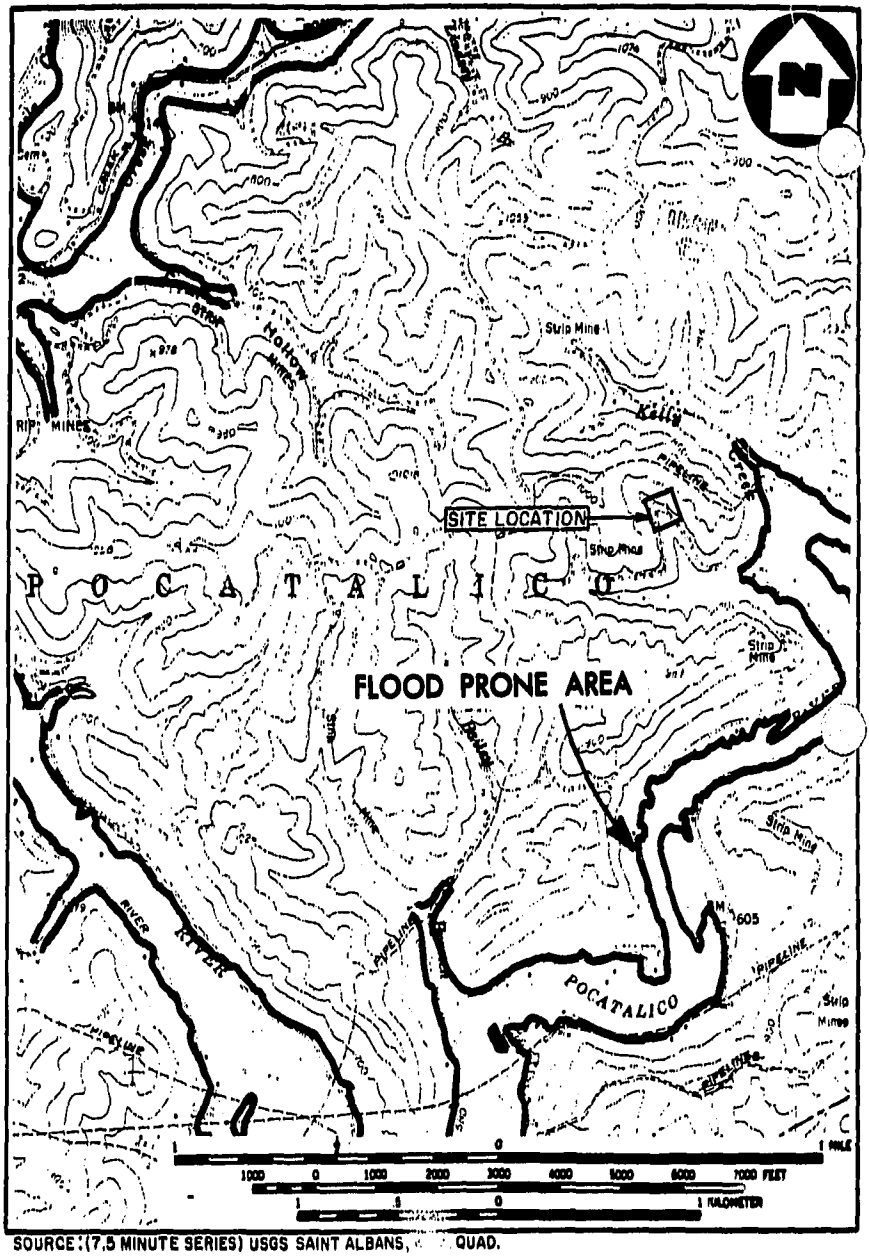
13. AUTHORIZING RPO: Harold G Bynum (SIGNATURE) — 14. DATE: 8/8/84

15. RECEIVED BY: ☒ ACCEPTED ☐ ACCEPTED WITH EXCEPTIONS ☐ REJECTED (CONTRACTOR RPM SIGNATURE) — 16. DATE: AR100340 8/8/84

Sheet 1 White – FITL Copy
Sheet 2 Canary – DPO Copy
Sheet 3 Pink – Contracting Officer's Copy (Washington, D. C.)
Sheet 4 Goldenrod – Project Officer's Copy (Washington, D. C.)

ORIGINAL
(Red)

APPENDIX B



SOURCE: (7.5 MINUTE SERIES) USGS SAINT ALBANS, QUAD.

SITE LOCATION MAP

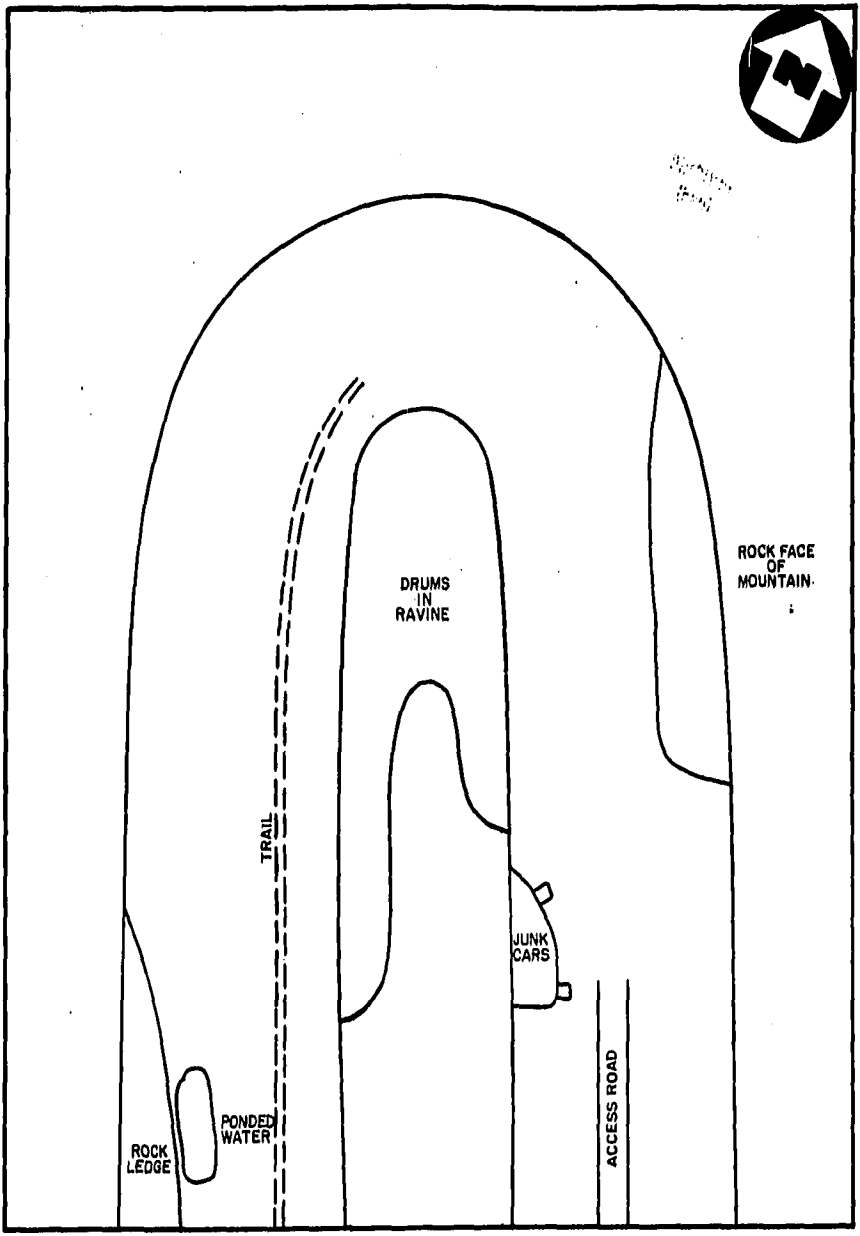
POCA STRIP MINE AREA, PUTNAM CO., W.VA.

SCALE 1:24000

FIGURE 1

NUS CORPORATION

A Halliburton Company



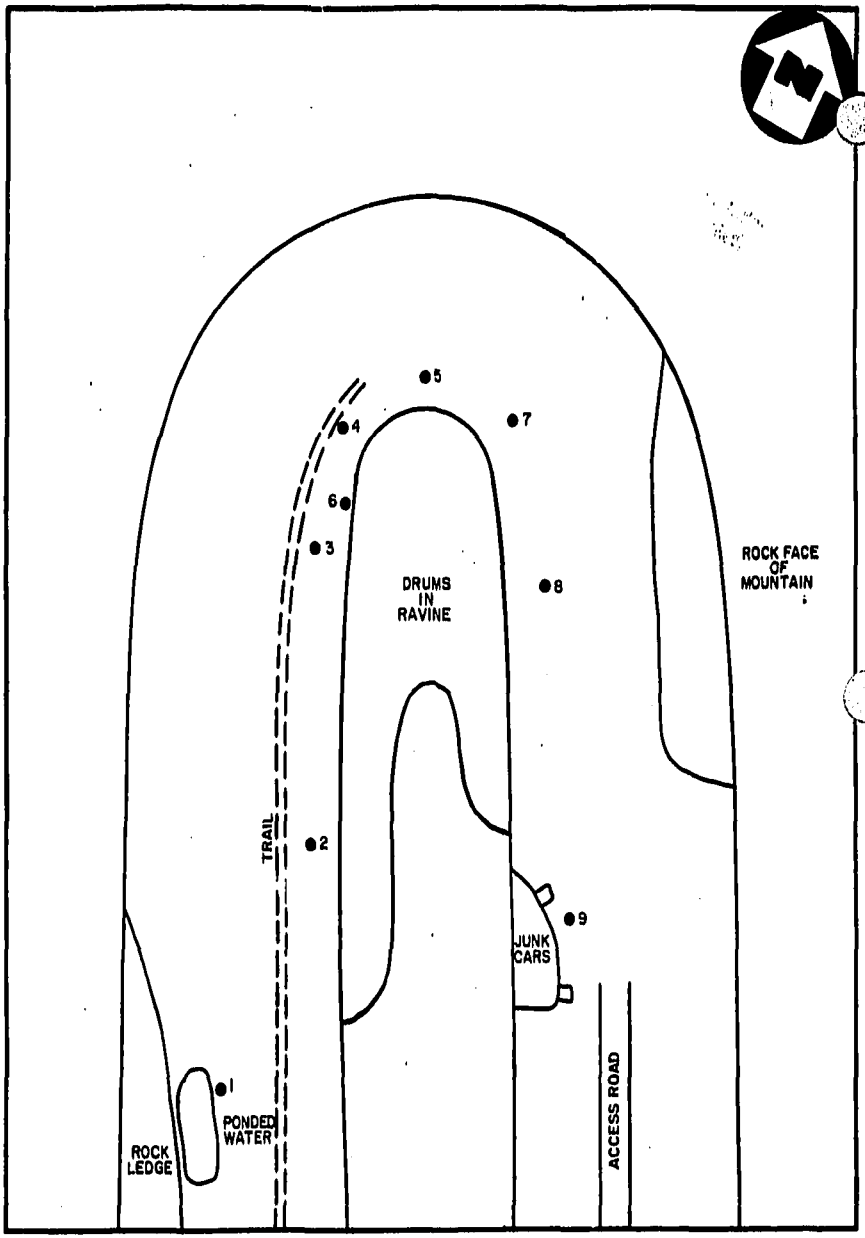
SITE SKETCH

POCA STRIP MINE AREA, PUTNAM CO., W.VA.

(NO SCALE)

NUS CORPORATION

A Halliburton Company



SAMPLE LOCATION MAP
POCA STRIP MINE AREA, PUTNAM CO., W.VA.
(NO SCALE)

FIGURE 3

MUS CORPORATION
A Halliburton Company

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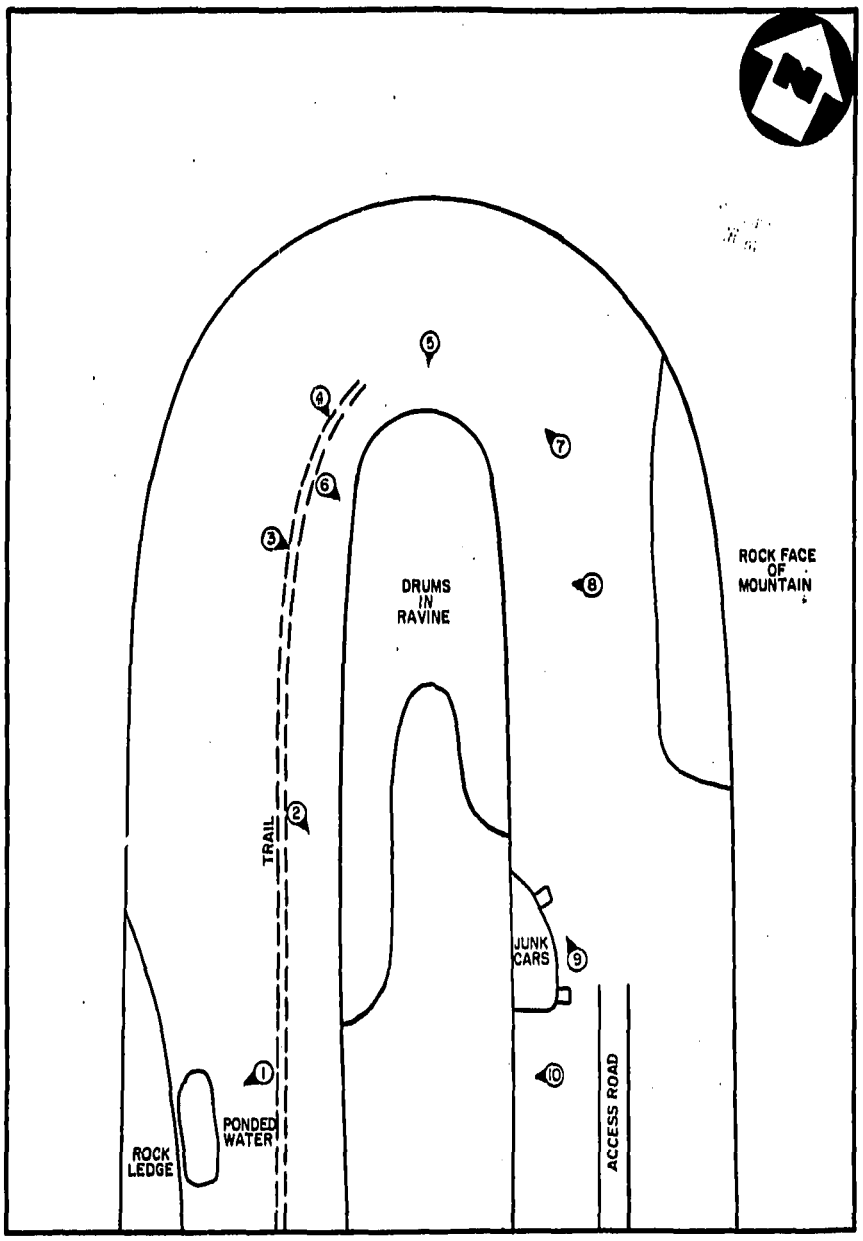

PHOTO LOCATION MAP

POCA STRIP MINE AREA, PUTNAM CO., W.VA.

(NO SCALE)

FIGURE 4

NUS CORPORATION

A Halliburton Company

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APPENDIX C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
CENTRAL REGIONAL LABORATORY
839 BESTGATE ROAD
ANNAPOLIS, MARYLAND 21401

301-224-2740
FTS-922-3752

ORIGINAL (Red)

DATE : October 26, 1984

SUBJECT: Dioxin Case 3272, DC008501 - DC008524
South Charleston/POCA

FROM : John Austin (3ES21) JA
Chemist

Poca Samples 12-24

TO : Walter Lee (3HW12)
Water Monitoring Staff

The quality assurance review performed on each data package consists of a review of all calibrations, ion ratios, column performance checks, duplicate precision, surrogate recoveries and a recalculation of all findings.

Isotope dilution selected ion mass spectrometry was used to test for the presence of 2,3,7,8-TCDD. In order for a result to be reported as dioxin, each of the following criteria had to be meet:

1. Retention time (at maximum peak height) of the sample component must be within 3 seconds of the retention time of the $^{13}C_{12}$-2,3,7,8-TCDD.

2. The integrated ion currents detected for m/z 257, 320 and 322 must maximize simultaneously.

3. The integrated ion current for each analyte and surrogate compound ion (m/z 257, 320, 322, and 328) must be at least 2.5 times background noise and must not have saturated the detector; internal standard ions (m/z 332 and 334) must be at least 10 times background and must not have saturated the detector.

4. Relative abundance of m/z 257 to m/z 322 should be $\geq$20% and $\leq$45%.

5. Abundance of integrated ion counts detected for m/z 320 must be $\geq$67% and $\leq$87% of integrated ion counts detected for m/z 322.

If any of the above criteria were not met, the result was not reported as dioxin but flagged with the qualifier "M", representing the estimated maximum possible concentration, and a foot note to the failed criteria.

For samples in which no unlabled 2,3,7,8-TCDD was detected, the estimated minimum detectable concentration, which is the concentration required to produce a signal with area (or peak height) of 2.5 times the background signal area (or peak height), was reported.

Attached are the analytical results for each batch of samples and any associated data qualifiers.

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Sample DC008520, when subjected to additional cleanup, was found to contain a maximum estimated value greater than 1 ppb (1.31 ppb max. est.). The m/z 320/322 ratio was in control, but the m/z 257/322 ratio did not meet identification criteria.

The original analysis and reanalysis of sample DC008517 failed to recover the surrogate and internal standard compounds. No valid analysis for this sample was attained. A matrix effect was found to exist.

TCDD Data Report Form

Laboratory: Hazleton Laboratories
Case No.: 3373
Batch/Shipment No.: -01

Report Date: 10-4-89
Column: CP SIL 98 # 511947

Sample Number	Extra Cleanup	Aliquot Wt Weight (g)	PB TCDD Resp.	DL	GC-MS Analysis Instr. ID	Date	Time	Rel. Ion Abund 320/322	322/324	PB Recovery Resp.	% Acc'y	Relative Ion Abundance (Peak Heights) 318	320	257	318 V	322	324	Comments
RB (BLANK)		10.0 g	ND	0.04	01	9-21-89	1755	—	.842	1.06	106%	—	—	—	2117	4294	5100	
CC0085-01		10.0 g	ND	0.19	01	"	1837	—	.809	1.34	134%	—	—	—	(127)	(199)	(296)	
CC0085-02	"D"	10.0 g	ND	0.08	01	10-2-89	2117	—	.825	1.04	104%	—	—	—	891	1833	2222	
CC0085-03	"D"	10.0 g	ND	0.04	01	"	2038	—	.819	1.06	106%	—	—	—	1952	3919	4777	
CC0085-04		10.0 g	ND	0.05	01	9-21-89	2037	—	.825	1.09	109%	—	—	—	1984	3043	3689	
CC0085-05		10.0 g	Em	0.17	01	9-26-89	1331	.657	.827	1.05	105%	216	329	77	2948	6006	7260	②
CC0085-06		10.0 g	ND Em	0.26	01	"	1418	—	.841	1.02	102%	—	—	—	1375	2887	3434	
CC0085-07		10.0 g	ND	0.04	01	"	1454	—	.824	1.04	104%	—	—	—	2011	4124	5005	
CC0085-08		10.0 g	ND	0.10	01	"	1530	—	.822	1.03	103%	—	—	—	737	1509	1850	
CC0085-09		10.0 g	ND	0.10	01	"	1608	—	.837	1.09	109%	—	—	—	827	1643	1958	
CC0085-10	"D"	10.0 g	ND	0.02	01	10-2-89	1911	—	.822	1.03	103%	—	—	—	361	746	907	
CC0085-11		10.0 g	4.94*	—	01	9-26-89	1447	.779	.821	1.01	101%	(413)	(617)	(137)	(261)	(723)	(515)	
CC0085-12	"D"	10.2 g	Em	0.27	01	"	1728	1.778	.827	1.06	106%	(11)	(7)	(3)	1162	2297	2916	②
CC0085-13	"D"	10.0 g	1.31	—	01	"	1805	.750	.778	1.06	106%	(9)	(12)	(4)	(18)	(35)	(45)	
CC0085-14		10.0 g			01													
CC0085-15		10.0 g			01													
CC0085-16	RB	10.0 g	ND	0.19	01	9-26-89	2052	—	.833	1.13	113%	—	—	—	452	858	1038	

RB = Reagent Blank
RP = Partial Spike/Confirmatory Analysis
N = Native TCDD Spike
D = Duplicate/Certified Field Blank
"D" = Confirmatory Cleanup
PB = Field Blank
ND = Not Detected
DL = Detection Limit
Em = Estimated Minimum Detection Limit
@ Corrected for contribution by native TCDD; 0.9% of m/e 322 subtracted.

* PE Sample T.V. 474 ppb

COMMENTS: SEE PAGE 2

TCDD Data Report Form

Laboratory: HAZLETON
Case No.: 3272
Batch/Shipment No.: 01

Report Date: 10-4-84
Column: CP SIL 88 # 511947

Sample Number	Extra Cleanup*	Aliquot Wet Weight (g)	PPB TCDD Conc.	PPB TCDD DL	GC-MS Analysis Instr. ID	GC-MS Analysis Date	GC-MS Analysis Time	Rel. Ion Abund 320/322	Rel. Ion Abund 332/334	PPB Surrogate Conc.	PPB Surrogate % Acc'y	Relative Ion Abundance (Peak Heights) 320	322	257	328	332	334	Comments
DC0085-17		10.0			01													
DC0085-18		10.0	EM	0.32	01	10-2-84	1217	.600	.797	1.05	105%	(3)	(5)	(2)	329	656	823	(2)
DC0085-19		10.0	17.8	–	01	"	1301	.812	.727	1.02	102%	(211)	(260)	(70)	(24)	(56)	(76)	
DC0085-20	"D"	10.0	EM	1.31	01	10-3-84	1427	.833	.835	1.00	100%	80	96	63	137	294	352	(6)
DC0085-21	"D"	100 ml	ND	0.02	01	"	1950	–	.772	0.99	99%	–	–	–	367	761	986	
DC0085-22		10.0	ND	0.06	01	"	1425	–	.812	0.94	94%	–	–	–	(73)	(164)	(202)	
DC0085-23D		10.0	1.03	–	01	10-3-84	1508	.721	.815	1.04	104%	142	197	50	361	737	904	
DC0085-24		10.0	ND	0.29	01	10-2-84	1756	–	.763	1.06	106%	–	–	–	272	530	737	
DC0085-13D	"D"	10.0	1.03	–	01	9-26-84	1844	.793	.804	1.06	106%	260 / 334	328 / 266	90.3	643	1272	1583	
		REJECT RUNS																
DC0085-02		10.0	EM	0.21	01	9-21-84	1917	–	.833	–	–	–	–	–	–	170	204	(1)
DC0085-03		10.0	EM	0.16	01	9-21-84	1736	–	.845	2.09	209%	–	–	–	–	158	187	(1)
DC0085-14		10.0	–	–	01	9-25-84	1524	–	.939	–	–	–	–	–	27	30	32	(5)
DC0085-15		10.0	ND	1.78	01	9-25-84	2009	–	.818	1.26	126%	–	–	–	(4)	(2)	(8)	(5)
DC0085-17		10.0	ND	1.87	01	9-26-84	2131	–	.444	0.58	58%	–	–	–	(9)	(20)	(45)	(1)(3)(4)

RB = Reagent Blank
? = Partial Scan/Confirmatory Analysis
S = Native TCDD Spike
D = Duplicate/Fortified Field Blank
D* = CARBOPAK CELITE CLEAN-UP
*Corrected for contribution by native TCDD; 0.9% of m/e 322 subtracted.

FB = Field Blank
ND = Not Detected
DL = Detection Limit
EM = ESTIMATED MAXIMUM POSSIBLE CONCENTRATION

COMMENTS
(1) PERCENT SURROGATE ACCURACY OUT OF CONTROL LIMITS
(2) mz 320/322 RATIO OUT OF CONTROL LIMITS
(3) mz 332/334 RATIO OUT OF CONTROL LIMITS
(4) 332 and/or 334 LESS THAN 10 X NOISE
(5) DETECTION LIMIT > 1 PPB
(6) mz 257/322 Ratio out of Control L

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TCDD Data Report Form

Laboratory: HAZLETON
Case No.: -01 3273 REDUNS
Batch/Shipment No.: 01

Report Dates: _____
Column: CP SIL 88

Sample Number	Extra Cleanup[a]	Aliquot Wet Weight (g)	PPB TCDD Meas.	PPB TCDD DL	GC-MS Analysis Instr. ID	GC-MS Analysis Date	GC-MS Analysis Time	Rel. Ion Abund 320/322	Rel. Ion Abund 332/334	PPB Surrogate Meas.	PPB Surrogate % Acc'y	Relative Ion Abundance (PEAK HEIGHTS) 320	322	257	328	332	334	Comments
DIOOBS 14	✓	10.0	2.18	–	01	10-12-87	1652	.756	.723	0.791	79.17%	220	291	58	196.4	491	679	
DIOOBS 15	✓	10.0	ND	0.54	01	"	1608	–	–	1.109	110.97%	–	–	–	(12)	(23)	(28)	
DIOOBS 17	✓	10.0	–	–	01	"	1524	–	–	–	–	–	–	–	–	–	–	①

EB = Reagent Blank
F = Partial Cleanup/Confirmatory Analysis
M = Native TCDD Spike
D = Duplicate of Partial Field Blank

FB = Field Blank
ND = Not Detected
DL = Detection Limit

① SIGNAL TO NOISE RATIO FOR m/z 332 AND 334 < 10/1

[a]Corrected for contribution by native TCDD; 0.9% of m/e 322 subtracted.

AR 0

AR100360

TCDD Data Report Form

Laboratory: HAZLETON LABORATORIES
Case No.: 3272
Batch/Shipment No.: -01

Report Date: 10-4-84
Column: CP SIL 88 # 511947

Sample Number	Extra Cleanup*	Aliquot Wet Weight (g)	PPB TCDD Meas.	DL	GC-MS Analysis Instr. ID	Date	Time	Rel. Ion Abund 320/322	320/318	PPB Surrogate Meas.	% Acc'y	Relative Ion Abundance (PEAK HEIGHTS) 328	322	257	328	322	320	Comments
RB (BLANK)		10.0g	ND	0.04	01	9-21-84	1755	—	.842	1.06	106%	—	—	—	2117	4294	5100	
DC0085-01		10.0g	ND	0.19	01	"	1837	—	.809	1.34	134%	—	—	—	(127)	(199)	(246)	
DC0085-02	"D"	10.0g	ND	0.08	01	10-2-84	2117	—	.825	1.04	104%	—	—	—	891	1833	2222	
DC0085-03	"D"	10.0g	ND	0.04	01	"	2038	—	.819	1.06	106%	—	—	—	1952	3914	4777	
DC0085-04		10.0g	ND	0.05	01	9-21-84	2037	—	.825	1.04	104%	—	—	—	1984	3043	365?	
DC0085-05		10.0g	Em	0.17	01	9-26-84	1337	.657	.827	1.05	105%	216	324	77	2448	6006	7260	②
DC0085-06		10.0g	Em	0.26	01	"	1918	—	.841	1.02	102%	—	—	—	1375	2887	3434	
DC0085-07		10.0g	ND	0.04	01	"	1454	—	.829	1.04	104%	—	—	—	2011	4124	5005	
DC0085-08		10.0g	ND	0.10	01	"	1530	—	.822	1.03	103%	—	—	—	737	1509	1850	
DC0085-09		10.0g	ND	0.10	01	"	1608	—	.839	1.09	108%	—	—	—	827	1643	1958	
DC0085-10	"D"	10.0g	ND	0.02	01	10-2-84	1911	—	.822	1.03	103%	—	—	—	361	746	907	
DC0085-11		10.0g	4.94	—	01	9-26-84	1447	.799	.821	1.01	101%	(413)	(517)	(137)	(20)	(423)	(515)	
DC0085-12	"D"	10.2g	Em	0.29	01	"	1728	1.778	.807	1.06	106%	(16)	(7)	(3)	1162	2247	2946	②
DC0085-13	"D"	10.0g	1.31	—	01	"	1805	.750	.778	1.06	106%	(9)	(12)	(4)	(18)	(35)	(45)	
DC0085-14		10.0g			01													
DC0085-15	RB	10.0g			01													
DC0085-16	—	10.0g	ND	0.19	01	9-21-84	2052	—	.833	1.13	113%	—	—	—	452	858	1030	

RB = Reagent Blank
F = Partial Scan/Confirmatory Analysis
N = Native TCDD Spike
D = Duplicate/Fortified Field Blank
"D" = Carbon/Celite Column

FB = Field Blank
ND = Not Detected
DL = Detection Limit
Em = Estimated Maximum Detection Limit

*Corrected for contribution by native TCDD; 0.9% of m/e 322 subtracted.

COMMENTS: SEE PAGE 2.

AR10036

TCDD Data Report Form

Laboratory: HAZLETON
Case No.: 3272
Batch/Shipment No.: 01

Report Date: 10-4-84
Column: CP SIL 98 # 511947

Sample Number	Extra Cleanup*	Aliquot Wt Weight (g)	PPB TCDD Meas.	DL	GC-MS Analysis Instr. ID	Date	Time	Rel. Ion Abund 320/322	322/324	PPB Surrogate Meas.	% Acc'y	Relative Ion Abundance (PEAK HEIGHTS) 318	322	257	318	322	324	Concrete
DC0085-17		10.0			01													
DC0085-18		10.0	Em	0.32	01	10-2-84	1217	.600	.797	1.05	105%	(3)	(5)	(2)	329	656	823	
DC0085-19		10.0	17.8	—	01	"	1301	.812	.737	1.02	102%	(211)	(260)	(70)	(24)	(56)	(76)	
DC0085-20	"D"	10.0	Em	1.31	01	10-3-84	1427	.833	.835	1.00	100%	80	96	63	137	294	352	
DC0085-21	"D"	100 ml	ND	0.02	01	"	1950	—	.772	0.99	99%	—	—	—	367	761	986	
DC0085-22		10.0	ND	0.06	01	"	1425	—	.812	0.94	94%	—	—	—	(73)	(164)	(202)	
DC0085-23N		10.0	1.03	—	01	10-3-84	1508	.721	.815	1.04	104%	142	197	50	361	737	904	
DC0085-24		10.0	ND	0.24	01	10-2-84	2356	—	.763	1.06	106%	—	—	—	292	580	734	
DC0085-13D	"D"	10.0	1.03	—	01	9-26-84	1844	.793	.804	1.06	106%	328	260	90.3	243	1272	1583	
		REJECT RUNS																
DC0085-02		10.0	Em	0.21	01	9-21-84	1917	—	.833	—	—	—	—	—	—	170	204	①
DC0085-03		10.0	Em	0.16	01	9-21-84	1956	—	.845	2.04	204%	—	—	—	—	158	187	①
DC0085-14		10.0	—	—	01	9-26-84	1929	—	.939	—	—	—	—	—	29	30	32	④
DC0085-15		10.0	ND	1.78	01	9-21-84	2009	—	.818	1.26	126%	—	—	—	(4)	(7)	(8)	⑤
DC0085-17		10.0	ND	1.87	01	9-26-84	2131	—	.444	0.58	58%	—	—	—	(9)	(20)	(45)	①③④

RB = Reagent Blank
F = Partial Scan/Confirmatory Analysis
N = Native TCDD Spike
D = Duplicate/Fortified Field Blank
"D" = CARBOPAK CARTRIDGE CLEAN-UP
*Corrected for contribution by native TCDD; 0.91 of m/e 322 subtracted.

FB = Field Blank
ND = Not Detected
DL = Detection Limit
Em = ESTIMATED MAXIMUM POSSIBLE CONCENTRATION

COMMENTS
① PERCENT SURROGATE ACCURACY OUT OF CONTROL LIMITS
② m/z 320/322 RATIO OUT OF CONTROL LIMITS
③ m/z 322/324 RATIO OUT OF CONTROL LIMITS
④ 332 AND/OR 324 LESS THAN 10 AS NOISE
⑤ DETECTION LIMIT > 1 PPB

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